

$$y^2 = -x^2 - 2x - 1 \quad y_{\text{max}} = -1 \quad x = -1 \quad y = 0 \quad \text{and} \quad y = -2 \quad \text{and} \quad y = 0 \quad \text{and} \quad y = -2 \quad \text{and} \quad y = 0 \quad \text{and} \quad y = -2$$

